

TITLE:       HINGED SUPPORTED ROOF SCAFFOLD

BACKGROUND OF THE INVENTION

5           This invention relates to a hinged support for roof scaffolding. More specifically, and without limitation this invention relates to compact hinged support that has a base plate that is designed to slide under a shingle on a roof so that the support member may be nailed to the deck  
10 of the roof to support scaffolding.

          Since the first shingled roof was laid, roofers have been seeking ways in which to more easily work and have supplies on a slanted roof without damaging the roof. In the past individuals have attempted to use scaffolding in  
15 order to assist them in removing and replacing shingles on a roof. These scaffolding devices utilize complicated systems with large cumbersome bases to support scaffolding. For example, U.S. Patent No. 3,866,715 to Foulk discloses a roofing platform that uses a large frame having many braces  
20 to support the scaffolding and platform of the disclosed device. Although this device accomplishes having a device that allows for scaffolding on the roof to assist in removing and replacing shingles, because of the very large base and brace members, hauling this device onto a roof can  
25 prove to be extremely dangerous. Other drawbacks of prior scaffolding support members is that they have been anchored into shingles in the roof causing damage to the roof. Therefore, it is desired in the art to provide for a scaffolding support member that is used on a roof top that  
30 is small and compact to provide for a safer, more efficient scaffold system and is used without damaging the shingles on the roof.

Thus, it is a primary object of the present invention to provide a roof scaffold support that improves upon the state of the art.

Yet another object of the present invention is to  
5 provide a method of supporting roof scaffold by wedging a roof scaffold support member underneath a pulled back shingle and anchoring the support member to the roof without damaging shingles.

Another object of the present invention is to provide  
10 a roof scaffold support member that is small and compact so that it may be easily transported on and off of a roof top.

Yet another object of the present invention is to use a roof deck as added support to a roof scaffold support member by securing the support member to the roof deck.

15 A further object of the present invention is to use a hinged roof scaffold support member in order to provide a scaffolding system that sits at a right angle compared to the ground level regardless of how steep a roof is.

These and other objects, features, or advantages of  
20 the present invention will become apparent from the specification and claims.

#### BRIEF SUMMARY OF THE INVENTION

The present invention is a support member for roof  
25 scaffolding. The support member is on a base plate that has an end plate that is able to be wedged underneath a shingle so that the base plate may be secured to a roof deck without harming shingles. The scaffold support member also has a hinged plate that has a sleeve secured to the  
30 plate that receives a scaffolding member. Because the sleeve is on a hinged plate, the scaffolding may be pivoted

to form a right angle with the ground in order to provide proper support for the scaffolding.

#### BRIEF DESCRIPTION OF THE DRAWINGS

5        Fig. 1 is perspective view of the hinged roof scaffold support member of the present invention secured to a roof;

      Fig. 2 is a side view of the hinged support member on a roof;

      Fig. 3 is a perspective view of an alternate  
10        embodiment of the present invention; and

      Fig. 4 is a sectional view taken along lines 4-4 of Fig. 3.

#### DETAILED DESCRIPTION OF THE OF THE INVENTION

15        Figs. 1 and 2 show the roof scaffold hinged support member 10 of the present invention. Support member 10 has a sleeve 12 with openings 14 that is adapted to receive scaffolding 15 and is located on top of a hinged plate 16. Hinged plate 16 is pivoted by hinge 18 that is rotatably  
20        connected to a plate 20. Plate 20 is operably connected to a base plate 22. Though the plate 20 and base plate 22 could be made from the same material, in a preferred embodiment the plate 20 is welded onto base plate 22. Because of the placement of the plate 20 on base plate 22,  
25        an end plate 24 that is part of base plate 22 is formed. Both end plate 24 and plate 20 have several openings 26. To secure scaffolding 15 within support member 10 a pin 28 having a cotter pin 30 is used.

      Fig. 3 shows an alternate embodiment of the present  
30        invention. As one can see, hinged plate 16 may be replaced depending on the type of scaffolding is needed for a certain application. A hinge 34 is rotatably connected to

hinged plate 36 and plate 37. Plate 37 is secured to base plate by weld or any other securing means. The hinged plate 36 supports a tubular sleeve 38 having opening 40 and base member 42. The base member 42 is rotatably mounted within the hinged plate 36 so that an end portion 44 of the base 42 protrudes beyond the hinged plate 36. This allows the sleeve 38 to rotate. Because the tubular sleeve 38 rotates, its opening 40 is able to accommodate different types of scaffolding.

In operation the support member 10 is secured to a roof 46 by lifting shingle 48 to expose the roof deck 50. The end plate 24 is then wedged underneath the shingle 48 so that the end plate is adjacent to the exposed roof deck 50. Nails 52 are then driven through openings 26 into the roof deck 50 to support the support member 10. By pulling back the shingle 48 and wedging the end plate 24 under the shingle 48 the support member 10 is secured to the roof 46 without driving a nail through the shingle 48 or securing the support member 10 to the shingle 48. This allows a support member 10 to be secured to a roof 46 without damaging the roof 46. Scaffold 15 is then placed onto the sleeve 12 and is secured to sleeve 12 with pin 28. Because of hinge 18 scaffolding 15 is able to be positioned at a right angle compared to the ground regardless of the steepness of the roof 46.

It should be appreciated that because plate 20 is placed on top of base plate 22 end plate 24 forms a wedging type member that can easily slide underneath a pulled back shingle 48. Because of this wedged end piece 24 the base plate 22 can be easily secured to the roof deck 50 without damaging the roof 46. Also, because of the nails 52 securing the base plate 22 to the roof deck 50 and because

of hinge 18, the support member 10 is able to support a scaffolding member 15 without using excess frame or base members. Consequently, support member 10 is compact and may be easily transported onto and off of roof 46.

5 Therefore, all of the objectives of the present invention have been obtained.

It will be appreciated by those skilled in the art that other various modifications could be made to the device without the parting from the spirit in scope of this  
10 invention. All such modifications and changes fall within the scope of the claims and are intended to be covered thereby.